6304W ONU Gateway Configuration Guide

Version 1.01

ubiQuoss Inc. www.ubiQuoss.com

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Getting Started

Default Settings

The following table lists the default settings for the four WAN interfaces to provide triple play services.

TABLE 1-1. Default Settings

Interface	Туре	VLAN	Binding LAN Ports	Service
1_TR069_R_VID_400	IPoE	400		TR-069
2_VOICE_R_VID_200	IPoE	200	PHONE1, PHONE2	Voice
3_INTERNET_R_VID_100	IPoE	100	LAN1, Wireless(2.4G/ 5G)	Internet
4_OTHER_B_VID_300	Bridge	300	LAN2, LAN3, LAN4	IPTV

FIGURE 1-1. Rear View



Logging into the Web GUI

Logging into the Web GUI

Follow these steps to log into the web GUI.

- **1** Connect your device to LAN 1 or Wireless.
- **2** Launch a web browser.
- **3** Connect to 192.168.1.1. A login screen displays.
- **4** Enter the user name and password. User names and passwords are case-sensitive.

TABLE 2-1. User Names and Default Passwords

	Administrator	User
User Name	admin	useradmin
Default Password	admin	useradmin

FIGURE 2-1. Login Screen



Changing Passwords

Follow these steps to change a password.

- **1** Connect your device to LAN 1 or Wireless.
- **2** Launch a web browser.
- **3** Connect to 192.168.1.1. A login screen displays.
- **4** Enter the user name and password. The home screen displays.
- **5** Select Management > User Info > User Info.

FIGURE 2-2. User Info

							Model:EPON >>		
nent>>User Info>>User In	Status	Network	Security	Application	Management	Diagnosis	Help		
User Info	User Accou	nts Settings							
▶ User Info	Access to y	our Router is con	trolled through two	o user accounts: adn	nin and user.				
Device	The user na	ime "admin" has u	inrestricted access	to change and view	configuration of you	ir Broadband Router	r.		
- Derive	The user name "user" can access the Broadband Router, view configuration settings and statistics.								
	Modify Pase Modify Pase	sword of user acco sword of admin ad	ount ccount						
	User Name:	useradmi	n						
	New Password:								
	Contirm Passwo	ord:		-					
				Save/Appl	1				

- **6** Select whether to change the user or admin password.
- 7 Enter the user name, the new password, and then confirm the password.
- 8 Click Save/Apply.

Viewing Device Information

Viewing Device Information

Follow these steps to view device information.

- 1 Connect your device to LAN 1 or Wireless.
- **2** Launch a web browser.
- **3** Connect to 192.168.1.1. A login screen displays.
- 4 Enter the user name and password. The home screen displays.
- 5 Select Status > Device Info > Device Basic Info. You can view the device type, device ID, hardware version, and software version.

FIGURE 3-1.	Device	Basic	Info
-------------	--------	-------	------

192.168.1.1/main.html x							8 - 8 8
← → C ① 192.168.1.1/ma	ain.html					¢	
							Model:EPON >>
Device Info>>Device Basic	Status	Network	Security	Application	Management	Diagnosis	Help
Device Info	Device Ba	asic Info					
▶ Device Basic Info	Device Type	8:	6304W		٦		
WAN Info	Device ID:		000770-00077	0116ac0	1		
	Device Seria	al Number:	W99M16560540				
LAN Info	Hardware V	ersion:	V1.0				
• Voice Info	Software Ve	ersion:	V1,1				
Remote Info							

Viewing WAN Interface Information

Viewing WAN Interface Information

Follow these steps to view WAN interface information.

- 1 Connect your device to LAN 1 or Wireless.
- **2** Launch a web browser.
- **3** Connect to 192.168.1.1. A login screen displays.
- 4 Enter the user name and password. The home screen displays.
- **5** Select Status > WAN Info > IPv4 Info. You can view the interface description, type, state, DNS address, and IPv4 address.

FIGURE 4-1. IPv4 Info

	s Status	Network S	ecurity	Appl	lication	Man	agemer	nt Diag	Inosis	Help
Device Info	WAN IPv	4 Info								
I WAN Info	Interface Name	Interface Description	Type	VlanMuxId	IGMP	NAT	Firewall	State	DNS Address	IPv4 Address
 IPv4 info 	epon0.1	1_TR069_R_VID_400	IPoE	400	Disable	Disable	Enable	Connected	8.8.8.8,0.0.0.	172.21.0.22
IPv6 info	epon0.2	2_VOICE_R_VID_200	1PoE	200	Disable	Enable	Enable	Connected	8.8.8.8,0.0.0.	172.31.0.16
EPON Info	epon0.3	3_INTERNET_R_VID_100	IPoE	100	Enable	Enable	Enable	Connected	8.8.8.8,0.0.0.	172.11.0.12
LAN Info	epon0.4	4_OTHER_B_VID_300	Bridge	300	Disable	Disable	Disable	Connected		
 Voice info Remote info 	Network	Information			_					
	Deraur	t Gateway	172.11.	0.1	_					
	Subr	et Mask 2	172.11. 55.255.2	0.1 255.0 8						

Configuring WAN Interfaces

Configuring WAN Interfaces

Follow these steps to configure a WAN interface.

- 1 Connect your device to LAN 1 or Wireless.
- **2** Launch a web browser.
- **3** Connect to 192.168.1.1. A login screen displays.
- **4** Enter the user name and password. The home screen displays.
- 5 Select Network > WAN > WAN Connection. You can add, modify or delete WAN connection settings.

FIGURE 5-1.	WAN Connection
-------------	----------------

- → C ③ 192.168.1	1/main.html					\$		3
						,	1odel:EPON	
N Connection	Status N	letwork	Security	Application	Management	Diagnosis	Help	
WAN	WAN Connecti	on Settings						
WAN Connection	Upstream Method:	EPON *						
Bind	Connected Name:	3 INTERN	NET R VID 10	0 •]				
LAN	Mode:	Route *						
WLAN	IP Mode:	IPv4	•					
TROSS	· DHCP	Get an IP Ad	idress from ISP					
Qos	Static	Config a sta	tic IP Address by	ISP				
B SNTP	O PPPoE	Please select	t this item if ISP	use PPPOE				
Route	MTU:	1500						
	NAT							
	Enable VLAN:							
	Vian ID	100						
	802.1p	0 •						
	Service Mode:	INTERNE	т	•				
	Bind Port:							

← → C ③ 192.168.1.	f/main.html					\$	
							Model:EPON >
n n	Status	Network	Security	Application	Management	Diagnosis	Help
B WAN	MTU:	1500					
► WAN Connection	NAT	2					
• Bind	Enable VLAN:	2					
E LAN	Vian ID	100					
WLAN	802.1p	0 -					
TROSS	Service Mode:	INTERNE	ET	•			
1.005	Bind Port:			-			
T ours	Port_1			W Port_	2		
2 anir	Port_3	ctos), coopu, so		Port_4	+ 	C (100-1)	
Route	Witeressi, 3	c(D2): 6304W_30	_040#1	C wirele	<pre>ss(55t02): 0304W_</pre>	00_0AC0#2	
	Winkers S	SID5): 6304W 2	4G 64C7#1	Wirele	eg(\$5106): 6304W	2 46 6607#2	
	Wireless(5	SID7): 6304W 2.4	4G 6AC7#3	🕑 Wirele	ss(551D8): 6304W	2.4G 6AC7#4	
	Note: A LAN is bound, only t	nterface can not be he last bound ope	e bound with more ration will take effe	than one WAN con act.	nection. If		
	Save/Apoly	Delete					

• Connection Name

To add a new WAN connection, select Add new WAN.

To modify or delete a WAN connection, select the WAN connection.

• Service Mode

Select from Internet (nat), VoIP (voice), and Other (bridge).

• Binding Port Select the LAN port to bind to the WAN interface.

Configuring WAN Interfaces

Configuring Wi-Fi

Configuring Wi-Fi

Follow these steps to configure Wi-Fi.

- **1** Connect your device to LAN 1 or Wireless.
- **2** Launch a web browser.
- **3** Connect to 192.168.1.1. A login screen displays.
- **4** Enter the user name and password. The home screen displays.
- **5** Select Network > WLAN > WLAN. You can configure basic Wi-Fi features.

FIGURE 6-1. WLAN

← → C ① 192.168.	1.1/main.html	and the second s				\$	
							Model:EPON >>
·WLAN>>WLAN	Status	Network	Security	Application	Management	Diagnosis	Help
WAN	Wireless	Basic Settings					
Bind	This page al	lows you to config	pure basic features	of the wireless LAN	i interface. You can e	mable or disable the	e wireless LAN
LAN	based on co	untry requirement	s. Click "Save/App	ly" to configure the	basic wireless option	n es 5516) ens ress 15.	no, une cristinet ser
WLAN	Wireless standa	rd models: wlan	0 6304W_5C_6	*			
► WLAN	 Enable V 	Wireless	[000411_00_0				
TROSS	🔲 Hide Act	cess Point					
	Clients I	solation					
405	Disable 1	WMM Advertise					
SNTP	🗹 Enable V	WMF					
Route	SSID: 630	4W_5G_6AC6#1	().				
	BSSID: 5a:0	7:70:11:6a:c6					
	BAND:		5GHz	,	0		
	Country:		United States				
	Channel:		Auto		Current Channel:1	55	
	802.11n/EWC:		Automatic				
	Bandwidth:		80MHz		Ourrent Bandwidt	h:80 Mbps	
	Control Sidebar	nd:	Down		Current Control S	deband:none	
	002.11- 0-0-		Auto				

0 152 100	BSS02: 52/07/70/11/53/05				A	 an ca	
	BAND:	5GHz	٠				
	Country:	United States	π.				
	Channel:	Auto	٠	Current Channel:155			
	802.11n/EWC:	Automatic	•				
	Bandwidth:	80MHz		Current Bandwidth:80 Mbps			
	Control Sideband:	Down	*	Current Control Sideband:none			
	802.11n Rate:	Auto	٠				
	802.11n Protection:	Auto	۰.				
	Support 802.11n Client Only:	Off	٠				
	54g""Rate:	54 Mbps	٠				
	Multicast Rate:	Auto					
	Basic Rate:	Default	٠				
	XPress***Technology:	Disable	٠				
	Modulation mode:	Disabled	•				
	Pre-NetworkRadarCheck:	1					
	In-NetworkRadarCheck:	10					
	TPCMitigation(db):	0(off)	۲				
	Transmit Power:	100%	•				
	WMM(Wi-Fi Multimedia):	Disable	٠				
	WMM Service Quality:	Disable	*				
	WMMAPSD;	Enable	٣				
	Save/Apply	Advance					

Changing the Wi-Fi Password

Follow these steps to change the Wi-Fi password.

- **1** Connect your device to LAN 1 or Wireless.
- **2** Launch a web browser.
- **3** Connect to 192.168.1.1. A login screen displays.
- **4** Enter the user name and password. The home screen displays.
- **5** Select Network > WLAN > WLAN.
- 6 Click Advance. Security Settings are displayed.
- 7 Select the SSID to change the password for. The following table lists the default Wi-Fi passwords.

TABLE 6-1. Default Wi-Fi Passwords

Wi-Fi	Password
5GHz	1234567890
2.4GHz	12345678

FIGURE 6-2. Wi-Fi Security Settings

Status Network	Security				
	occurry	Application	Management	Diagnosis	Help
Wireless Security Se	ttinas				
This page allows you to co method, selection data eoc	nfigure security featu	ures of the wireless L	AN interface. Include	e setting the network	authentication
specify the encryption leng	th.	are a nearen neg s	requires to insertine		inconcern on a
Select SSID:	6304W_5G_6A0	C6#1 🔻			
Network Authentication:	Mixed WPA2/W	PA-PSK *			
WPA Pre-shared Key:	Show				
WPA Update Session Key Interval:	0				
WPA Encryption:	TKIP+AES *				
Back	Save/Apply				
	Wireless Security Se This page allows you to co method, selecting data enc specify the encryption leng Select SSID: Network Authentication: WPA Update Session Key Interval: WPA Logdate Session Key Interval: Back	Wireless Security Settings This page allows you to configure security featimethod, selecting data encryption, specify whe specify the encryption length. Select SSID: 6304W_5G_6A Network Authentication: Mixed WPA2/W WPA Preshared Key: Show WPA Update Session Key Interval: Ø Back Save/Apply	Wireless - Security Settings This page allows you to configure security features of the wireless L method, selecting data encryption, specify whether a network key is specify the encryption length. Select SSID: 6304W_5G_6AC6#1 • Network Authentication: Mixed WPA2/WPA-PSK • WPA Preshared Key: Show WPA Update Session Key 0 Interval: TKIP+AES • Back Save/Apply	Wireless Security Settings This page allows you to configure security features of the wireless LAN interface. Include method, selecting data encryption, specify whether a network key is required to authent specify the encryption length. Select SSID: 6304W_5G_6AC6#1 • Network Authentication: Mixed WPA2/WPA-PSK • WPA Pre-shared Key: • Show Show WPA Update Session Key 0 Interval: TKIP+AES • Back Save/Apply	Wireless Security Settings This page allows you to configure security features of the wireless LAN interface. Include setting the network method, selecting data encryption, specify whether a network key is required to authenticate to this wireless specify the encryption length. Select SSID: 6304W_5G_6AC6#1 • Network Authentication: Mixed WPA2/WPA-PSK • WPA Preshared Key: Show WPA Update Session Key D Interval: TKIP+AES • Back Save/Apply

Viewing Wi-Fi Information

Viewing Wi-Fi Information

Follow these steps to configure Wi-Fi.

- 1 Connect your device to LAN 1 or Wireless.
- **2** Launch a web browser.
- **3** Connect to 192.168.1.1. A login screen displays.
- **4** Enter the user name and password. The home screen displays.
- **5** Select Network > LAN Info> WLAN Info.

FIGURE 7-1. WLAN Info

Status>>LAN I Status Network Security Application Management Diagnosis Help Device info WLAN Interface Info WAN info WIFI Connection Status: Enable Current Channel: 155 SSID-1: 6304W_56_6AC6#1 SSID-1: 5304W_56_6AC6#1 SSID-1: 6304W_56_6AC6#1 SSID-1: 6304W_56_6AC6#1 SSID-1: 6304W_56_6AC6#1 SSID-1: 6304W_56_6AC6#1 SSID-1: 6304W_56_6AC6#1 SSID-1: Finite Provide Press Visite Info Receive and Transmit Package Statistics Wireless tandard models: Wian0 Wireless standard models: Wian0 WPS Device info									
Device info WLAN Interface Info WAN info WIFI Connection Status: Enable LAN Info Current Channel: 155 SID-1: 6304W_5G_6AC6#1 SSID-1: SSID-1: SSID-1: 6304W_5G_6AC6#1 SSID-1: SSID-1: Mixed WPA2/WPA-PSK Mixed WPA2/WPA-PSK Wise info Interface Receive Transmit Wireless standard models: Wian0 WIPS Device info	Status>>LAN I	Status	Network	Security	Application	Management	Diagnosis	Help	
WAN info WIFI Connection Status: Enable LAN info Current Channel: 155 SSID-1: 6304W_SG_6AC6#1 SSID-1: 6304W_SG_6AC6#1 SSID-1: 6304W_SG_6AC6#1 VUISE info Mixed WPA2/WPA-PSK Receive and Transmit Package Statistics Vsice info Interface Receive and Transmit Wireless 0 0 0 Wireless standard models: Wlan0 V WPS Device info Visite info Visite info	Deviće liifo	WLAN Int	erface Info						
LAN Info Current Channel: 155 SSID-1: 6304W_5G_6AC6#1 SSID-1: Encryption and Authentication Method: Mixed WPA2/WPA-PSK > USB Info Receive and Transmit Package Statistics Voice Info Interface Receive Transmit Bytes Pikis Erm Drops Bytes Pikis Erms Drops Wireless standard models: Wilan0 Wireless tandard models: Wilan0 V	WAN Info	WIFI Conne	ction Status:		Enable				
WLAN Info SSID-1: 6304W_5G_6AC6#1 SSID-1: SSID-1: 6304W_5G_6AC6#1 SSID-1: SSID-1: Mixed WPA2/WPA-PSK Visite Info Receive and Transmit Package Statistics Voice Info Interface Receive Transmit Bytes Pkis Fm Drops Bytes Pkis Bross Wireless standard models: Wlan0 V WPS Device info Wireless Wireless	LAN Info	Current Cha	nnel:		155				
WLAN Info SSID-1. Encryption and Authentication Method: Mixed WPA2/WPA-PSK ETH Info Receive and Transmit Package Statistics Voice Info Interface Receive Transmit Remote Info Bytes Picks Ems Drops Bytes Picks Ems Drops Wireless standard models: Wireless standard models: wlan0 v	Sector May	SSID-1:			6304W_5G_	6AC6#1			
ETH Info USB Info Receive and Transmit Package Statistics Interface Receive Transmit Prise Prise Drops Bytes Prise Drops Wireless standard models: wilan0 Wireless tandard models: wilan0 Wireless tandard models: wilan0	 WLAN Info 	SSID-1 Enc	ryption and Authent	ication Method:	Mixed WPA2	/WPA-PSK			
Wireless standard models: wlan0 WPS Device info	Voice Info Remote Info	Interface By Wireless	Receive	Transmit Bytes Pkts Errs I	Props				
WPS Device info		Wireless star	ndard models: wlar	10 10 10 1 10	•				
		WPS Devi	ice info						
IP Address MAC Address		IP Address	M	AC Address					
		and the second sec							

• WLAN Interface Info

Displays Wi-Fi interface information.

• WPS Device Info

Displays wireless devices connected to the ONU using the WPS button.

Configuring Voice Service

Configuring Voice Service

Follow these steps to configure voice service.

- **1** Connect your device to LAN 1 or Wireless.
- **2** Launch a web browser.
- **3** Connect to 192.168.1.1. A login screen displays.
- **4** Enter the user name and password. The home screen displays.
- **5** Select Application > VoIP > Basic Setup. You can configure SIP parameters and enable or disable SIP accounts.

FIGURE 8-1. VoIP > Basic Setup

← → C ① 192.168.1.	1/main.html	********			\$	
						Model:EPON >
ietup	Status Net	work Security	Application	Management	Diagnosis	Help
DDNS	Voice SIP Basi	c Configure				
Advance NAT	Please input SIP p	arameter, then click "apply"	to save.			
UPnP	Voice binding interface name:	epon0.2 *				
VOIP	Country:	North America •				
► Basic Setup	SIP local port[range:0 65535]:	5060				
Digitmap Setup	Enable User Ager	t Domain				
 Voice Media SIP App 	Domain	192.168.12.20				
MS App	😰 enable primary S	IP proxy				
Debug Setup	IP Address Port	192.168.12.20 5060				
IGMP	🖉 anahla nrimani S	IP outbound provy				
MLD	IP Address	192.168.12.20				
	Port	5060				
Daily Application	enable orimary S	IP registration				
	IP Address	192 168 12 20				
	Port	5060				
	enable second SI	P proxy				
	enable second SI	P outbound proxy				

							Model:EPON
IIP>>Basic Setup	Status	Network	Security	Application	Management	Diagnosis	Help
PONG.	65535J:	12					
UDNS	🖉 Enable (lser Agent Doma	in				
Advance NAT	Domain	1	92.168.12.20				
UPnP		dentes E10 eres					
VOID	10 Address	ninary SIP prox	r 32 168 12 20				
VOIP	Port	50	060				
 Basic Setup 		1.0					
Digitmap Setup	🗷 enable p	rimary SIP outb	ound proxy				
Voice Media	IP Address	15	92.168.12.20				
SIP App	Port	6	360				
► IMS App	🗷 enable p	nimary SIP regis	tration				
Debug Setup	IP Address	19	92.168.12.20				
n chailer.	Port	50	060				
IGMP	🗐 anabia s	arond SID provi					
MLD	tur er Adulte a	and an an place					
Dente des l'astronome	🗐 enable s	econd SIP outbo	ound proxy				
Daily Application							
	tal enable s	econd SIP regist	ration				
	SIP Account	enable account()	ser Number	authentica	ation user name	authentication pa	issword
	1	2	234567890	USERN	AME		
	2			_			

Configuring Dial Plans

Follow these steps to configure a dial plan.

- **1** Connect your device to LAN 1 or Wireless.
- **2** Launch a web browser.
- **3** Connect to 192.168.1.1. A login screen displays.
- **4** Enter the user name and password. The home screen displays.
- **5** Select Application > VoIP > Digitmap Setup.

	. 1/main.num)					1	
							Model:EPON >>
p Setup	Status	Network	Security	Application	Management	Diagnosis	Help
DONS	basic digiti	map configure					
Advance NAT	enable basic d	igitmap: ON	•				
1 UPnP	[2-9]11 *x	(length 4096 char xT *xxxT [2-9]	acter): xxxxxxxxx 1[2	-			
	9]xxxxxxxx	x[011xxxxxxxxx	xT 011xxxxxxx	xxxxT 011xxxxxx	XXXXX		
Basic Setup	-				le	ft4000character	
Digitmap Setup							
Voice Media							
SIP App					ß		
MS App	digitmap matc	h mode:	maximum m	hatch	•		
Debug Setup	inter-digit shore	rt timer:	5	[s]	horter than inter-dig	it timer is recomma	nded, unit:
	inter-digit long	g timer:	20	(U	nit:S]		
IGMP	first digit timer	r.	16	[ra	ange:5~20, unit: see	1	
MLD	t digit timer terminal chara	cter trigger mode:	3 intelligent m	[U iode	nit:S]		

FIGURE 8-2. VoIP > Digitmap Setup

Configuring NTP

Configuring NTP

Follow these steps to configure NTP.

- 1 Connect your device to LAN 1 or Wireless.
- **2** Launch a web browser.
- **3** Connect to 192.168.1.1. A login screen displays.
- **4** Enter the user name and password. The home screen displays.
- **5** Select Network > SNTP > NTP Server. You can configure the ONU to synchronize local time with internet time servers.

FIGURE 9-1. SNTP

- → C ① 192.168.1.1/ma	in.html	*******				Å			
							Model:EPON >>		
Network>>SNTP>>N	Status	Network	Security	Application	Management	Diagnosis	Help		
WAN	SNTP Set	tings							
Bind	Configure	e the time of rout	ter to synchronize wit	h internet time serve	rs , this need router	connected to publi	c network and NTP		
LAN	Server is a	1070 01 0	01-00-64						
WLAN	Automati	cally Synchronize	with Internet Time :	Servers					
TR069	NTP Server S NTP Server S	NTP Server Synchronize WAN Interface: With INTERNET Attribute NTP Server Synchronize Interval [Unit:s]: 86400							
QoS	First NTP Ser								
SNTP	Second NTP	Server: ntp1.t	ummy.com	•					
	Third NTP Se	erver: None		•					
NTP Server	Fourth NTP Set	None None		*					
Route			00.000 D - 01		0				
	Time Zone O	ffset: (GMT	+08:00) Beijing, Ch	ongqing, Hong Kon	g, Urumqi				
				Save/Appl	Y				
				HEMANIGA (C	1				

Configuring Static Routing

Configuring Static Routing

Follow these steps to configure static routing.

- **1** Connect your device to LAN 1 or Wireless.
- **2** Launch a web browser.
- **3** Connect to 192.168.1.1. A login screen displays.
- **4** Enter the user name and password. The home screen displays.
- **5** Select Network > Route > Static Routing. You can configure or delete a static route.

							Model:EPON >
>Static Routing	Status	Network	Security	Application	Management	Diagnosis	Help
WAN	Static Ro	ute Settings(m	aximum 32 er	tries can be co	nfigured)		
Bind	Enter the	e destination IP addre	ess, subnet mask,	gateway AND/OR av	ailable WAN interface	then click "Save/A	oply" to add the
LAN	endy to	IP Version	Destination 1	P Address Gat	eway Interface	Metric De	lete
• WLAN				Add Dele	ite		
TR069							
• Qos							
• SNTP							
B Route	n						
 Static Routing 							
Dynamic routing							
IDV6 Static Routing							

FIGURE 10-1. Route > Static Routing

- → C 0 192.168.1.1/ma	in.html					\$	
							Model:EPON >
Network>>Route	Status	Network	Security	Application	Management	Diagnosis	Help
WAN	Static Ro	oute Settings(m	aximum 32 en	tries can be co	nfigured)		
Bind	Enter th	e destination IP add	ress, subnet mask,	gateway AND/OR av	ailable WAN interface	e then click "Save/Ap	oply" to add the
LAN	entry to	TD Address					
WLAN	Subnet Mas	k:					
TDOCO	Gateway	y Address:					
TRUSS	🗷 Interfac	6:	1_TR069_R_VI	D_400/epon0.1	-		
QoS				Save/Appl	1		
SNTP							
Route							
 Static Routing 							
Dynamic routing							
 IPV6 Static Routing 							

Restarting the Device

Restarting the Device

Follow these steps to restart the device.

- **1** Connect your device to LAN 1 or Wireless.
- **2** Launch a web browser.
- **3** Connect to 192.168.1.1. A login screen displays.
- **4** Enter the user name and password. The home screen displays.
- **5** Select Management > Device > Device Restart.
- 6 Click Restart.

FIGURE 11-1. Device Restart



Reverting to the Default Setting

Reverting to the Default Setting

Follow these steps to revert to the default setting.

- **1** Connect your device to LAN 1 or Wireless.
- **2** Launch a web browser.
- **3** Connect to 192.168.1.1. A login screen displays.
- **4** Enter the user name and password. The home screen displays.
- **5** Select Management > Device> Factory Default.
- 6 Click Recovery Factory Set.

FIGURE 12-1. Factory Default



Upgrading Software

Upgrading Software

Follow these steps to upgrade software.

- 1 Connect your device to LAN 1 or Wireless.
- 2 Launch a web browser.
- **3** Connect to 192.168.1.1. A login screen displays.
- **4** Enter the user name and password. The home screen displays.
- **5** Select Management > Device> Firmware Upgrade.
- **6** Choose the file, and then click Upgrade Software.

14000	********			1								
	Managem	Status	Network	Security	Application	Management	Diagnosis	Help				
User Info		Uporade	Software Settin	nas								
Device		Step 1: (Obtain an updated so	oftware image file i	from your ISP.							
	1444	Step 2: E	Enter the path to the	image file location	n in the box below o	r click the Browse bu	tton to locate the in	nage file.				
Device Rest	tart	Step 3: 0	Click the "Update Sol	ftware" button onc	e to upload the new	image file.						
 Factory Defi 	ault	NOTE: T	NOTE: The update process takes about 2 minutes to complete, and your Broadband Router will reboot.									
 Firmware Ur 	porade	Software File Name: Choose File No file chosen										
Configuratio	on Backup		1		Lindate Soft	ware						
Configuratio	on Update				opout con	and to be a set of the						
With Balance												
Log File												

FIGURE 13-1. Firmware Upgrade

Configuring Backups

Configuring Backups

Follow these steps to configure backups.

- **1** Connect your device to LAN 1 or Wireless.
- **2** Launch a web browser.
- **3** Connect to 192.168.1.1. A login screen displays.
- **4** Enter the user name and password. The home screen displays.
- **5** Select Management > Device> Configuration Backup.
- **6** To save the current configuration to a backup file, click Backup Settings.



FIGURE 14-1. Configuration Backup

CHAPTER 15 Restoring Configuration Files

Restoring Configuration Files

Follow these steps to restore a configuration file.

- 1 Connect your device to LAN 1 or Wireless.
- **2** Launch a web browser.
- **3** Connect to 192.168.1.1. A login screen displays.
- **4** Enter the user name and password. The home screen displays.
- **5** Select Management > Device> Configuration Update.
- **6** To restore a previously saved configuration file, choose the file, and then click Update Settings.



FIGURE 15-1. Configuration Update

Performing Diagnostics

Performing Diagnostics

Follow these steps to perform diagnostic testing.

- **1** Connect your device to LAN 1 or Wireless.
- 2 Launch a web browser.
- **3** Connect to 192.168.1.1. A login screen displays.
- 4 Enter the user name and password. The home screen displays.
- **5** Select Diagnosis> Network Diagnosis> Line Test. You can view the current statuses of LAN and Wi-Fi connections.
- 6 To refresh, click Re-run Diagnostic Tests.

FIGURE 16-1. Line Test

								Model:EPON >>
	Diagnos	Status	Network	Security	Application	Management	Diagnosis	Help
Ping Test Tracert Test Inform Test	LAN1 Con LAN1 Con LAN2 Con LAN3 Con	nection Test inection Test inection Test inection Test inection Test	Pass <u>H</u> Fall <u>H</u> Pass <u>H</u>	संघ संघ संघ				
		UAN4 Cor Wlan Cor	nection Test	Pass H	elp elp			
					Re-run Diagnost	ic Tests		

Performing Ping Tests

Follow these steps to perform a ping test.

- 1 Connect your device to LAN 1 or Wireless.
- **2** Launch a web browser.
- **3** Connect to 192.168.1.1. A login screen displays.
- **4** Enter the user name and password. The home screen displays.
- **5** Select Diagnosis> Network Diagnosis> Ping Test.
- 6 Select the Interface.
- 7 Enter the Destination IP address or Host Name.
- 8 Click Start.





Performing Tracert Tests

A tracert test traces the route of packets from an interface to the destination host.

Follow these steps to perform a tracert test.

- 1 Connect your device to LAN 1 or Wireless.
- 2 Launch a web browser.
- **3** Connect to 192.168.1.1. A login screen displays.
- **4** Enter the user name and password. The home screen displays.
- 5 Select Diagnosis> Network Diagnosis> Tracert Test.
- 6 Select the Interface.
- 7 Enter the Destination IP address or Host Name.

8 Click Start.

FIGURE 16-3. Tracert Test

						,	Model:EPON >>
twork Diagnosis>>Tracert T	Status	Network	Security	Application	Management	Diagnosis	Help
Network Diagnosis	Tracert T	est					
Line Test Interface: Ping Test Destination IP address or Host Name		1_TR069_	•				
Tracert Test Inform Test	The Result Info: Tracing route to 172.16.130.45 [172.16.130.45] over a maximum of 20 hops: 1.2 one 1 me 1me 172.21.0.5 [172.21.0.1]						
	2 1 ms * 1 ms 172.16.130.45 [172.16.130.45] break with success.						

Performing Inform Tests

An inform test sends an inform message to the ACS server.

Follow these steps to perform an inform test.

- **1** Connect your device to LAN 1 or Wireless.
- **2** Launch a web browser.
- **3** Connect to 192.168.1.1. A login screen displays.
- **4** Enter the user name and password. The home screen displays.
- **5** Select Diagnosis> Network Diagnosis> Inform Test.
- 6 Click Test.

FIGURE 16-4. Inform Test



6304W ONU Gateway Installation Guide

Version 1.01

ubiQuoss Inc. www.ubiQuoss.com

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Pre-Installation Considerations

This chapter provides pre-installation considerations that the user should note before installing and using the ONU.

Electric Safety

- Ensure that there are no inflammable, conductive or moist objects near the ONU.
- It is recommended to plug the optical interface into the jacket when it is not in use. Avoid direct eye exposure to the laser emitted from the optical interface. Wear safety glasses to protect your eyes.

Device Position

- A running electric device easily generates heat. Ensure that the device is placed in a well-ventilated environment.
- Keep the device away from heat and water.

• Ensure that the power supply is reliable. The input voltage fluctuation range should be lower than 10%. The power plug should not share one socket with a hair drier, an iron or a refrigerator.

Safety Cautions

- Read the user manual carefully before using the ONU.
- Do not use any accessory that is not shipped with the ONU without prior consent of the manufacturer. This may cause fire or product damage.
- Use the power adapter that is shipped with the ONU.
- Do not place any object on top of the ONU.
- Keep the ONU dry, ventilated, and clean.
- If lightning occurs, unplug the power plug and all connection cables to protect the ONU against lightning effects.
- Clean the ONU using a soft and dry cloth rather than liquid or atomizers. Turn off the ONU before cleaning it.
- Turn off the ONU when it is not in use.
- Keep ventilation holes clean and prevent any object from entering ventilation holes. This may cause short circuit and further cause product damage or fire. Do not spray liquid on the surface of the ONU.
- Do not open the case of the ONU, especially when it is turned on.
- Before plugging or unplugging the ONU, ensure that the power is off. This is to avoid surge.
- Be careful when unplugging the ONU, as the transformer may be very hot.

LED Descriptions

This chapter describes conditions indicated by LEDs on the front panel of the ONU.

FIGURE 2-1. Front Panel

/															
A	U	U	U	U	U	U	U	U	U	U	U	U	U		
DIRA	B	2	~	2	- -	5.0) ¹²	Ĵ	r	- L	ī	(1)	G		
יכ	0.0445				5										

TABLE 2-1. LED Descriptions

LED	Status	Description
Power	On	Power is on and working.
	Off	Power is off or there is a power failure.
BAT	On	Battery is disconnected.
	Off	Battery is connected.
Internet	On	Internet is connected and operational.
	Off	Internet is disconnected.

TABLE 2-1. LED Descriptions

LED	Status	Description
Link 1-4	On	Link is connected and operational.
	Blinking	Data is being transmitted.
	Off	Link is disconnected.
Voice 1-2	On	Voice is connected and operational.
	Blinking	Data is being transmitted.
	Off	Voice is disconnected.
USB	On	USB is connected and operational.
	Blinking	Data is being transmitted.
	Off	USB is disconnected.

Buttons and Interfaces

This chapter describes the buttons and interfaces on the rear panel of the ONU.

FIGURE 3-1. Rear Panel



TABLE 3-1. LED Descriptions

Interface/Button	Description
PON	Fiber port.
RESET	Reboots ONU and restores factory default configuration.
POWER	DC power connector.
ON/OFF Switch	Turns power supply on/off.
POTS 1-2	Telephone interface.
GE 1-4	Ethernet interface.
WLAN	Turns WLAN on/off.
WPS-2.4G	Connects to Wi-Fi.

TABLE 3-1. LED Descriptions

Interface/Button	Description
WPS-5G	Connects to Wi-Fi.
USB	USB port.
UPS	UPS port.

Installing the ONU

This chapter provides instructions on how to install the ONU.

Connecting the Fiber

Before connecting the product to the fiber, you need to install the fiber. Follow these steps to install the fiber.

- **1** Remove the dust cap from the optical interface.
- **2** Insert the fiber into the flange plate.
- 3 Connect the fiber from the flange plate to the optical interface on the wall.

Note

- When a fiber is not in use, cover the optical interface of the ONU and put the dust cap back on the optical fiber. Prevent dust pollution or water immersion, as this may cause damage to the fiber and optical interface of the ONU.
- If fibers need to be fixed during parallel cabling, do not fasten the fibers too tightly. Avoid fiber extrusion, as this may cause fiber damage.

Connecting the Power Adapter and Power Cord

Follow these steps to connect the power adapter to the ONU.

- **1** Insert one end of the power cord attached with the power adapter into the POWER connector.
- 2 Press the ON/OFF button to ensure that the power status is ON.
- **3** Check whether the Power LED is on. If it is on, the power supply is normal. Otherwise, check whether the power cord and the power adapter are correctly connected.

Follow these steps to connect the UPS to the ONU.

- 1 Insert one end of the power cord attached with the UPS device into the UPS slot.
- **2** Press the ON/OFF button to ensure that the power status is ON.
- **3** Check whether the Power LED is on. If it is on, the power supply is normal. Otherwise, check whether the power cord and the UPS device are correctly connected.

Connecting the Ethernet Port

Follow these steps to connect to the Ethernet port.

- **1** Insert one end of a network cable with an RJ-45 connector into the Ethernet port.
- 2 Insert the other end of the cable to a PC or Switch.
- **3** Check whether the Link LED is on. If it is on, the link is connected and operational. Otherwise, check whether the cable is plugged in properly.

Connecting the POTS Port

Follow these steps to connect to the POTS port.

- **1** Insert one end of a cable with an RJ-11 connector into the POTS port.
- 2 Insert the other end of the cable to a telephone.

3 Check whether the Voice LED is on. If it is on, voice is connected and operational. Otherwise, check whether the cable is plugged in properly.

Configuring the ONU

This chapter provides instructions on how to configure the ONU.

Accessing the Internet

After you have successfully connected the ONU, you need to configure the ONU so that it can obtain an IP address.

If the ONU only uses a serial number to access the Internet:

• After connecting the fiber to the ONU, wait approximately two minutes for an Internet connection to be established.

If the ONU uses a serial number and EPON password to access the Internet:

- **1** Type 192.168.1.1 in the address field of a web browser. A login screen appears.
- **2** Enter the user name and password.
- 3 Click Network > TR069 > EPON Password. A dialog box appears.
- 4 Enter your EPON password in the text box and the click SAVE.
- **5** Wait approximately one minute for an Internet connection to be established.

Setting up WLAN

Follow these steps to set WLAN parameters.

- **1** Type 192.168.1.1 in the address field of a web browser. A login screen appears.
- 2 Enter the user name and password.
- **3** Click Network > WLAN. A dialog box appears.

The following table provides a brief description of WLAN parameters.

Parameter	Description
Select SSID	Select a WLAN you want to modify.
Network Authentication	Select the authentication method. Mixed WPA2/WPA-PSK is recommended.
WPA Pre-shared Key	Enter the WLAN password.
WPA Encryption	Select the encryption method. TKIP+AES is recommended.

TABLE 5-1. WLAN Parameters

Setting Security

Follow these steps to set security.

- **1** Type 192.168.1.1 in the address field of a web browser. A login screen appears.
- 2 Enter the user name and password.
- **3** Click Network > Security. A dialog box appears.

The following table provides a brief description of the available Security features.

TABLE 5-2. Security Features

Feature	Description
URL Filter	Permit or forbid access to specified addresses.
MAC Filter	Permit or forbid access to the Internet.
Firewall Level	Select from low, middle, high.
DDOS Setup	Set up DDOS to enhance security.

Downloading to a USB

Follow these steps to download files to a USB.

- **1** Type 192.168.1.1 in the address field of a web browser. A login screen appears.
- **2** Enter the user name and password.
- **3** Click Network > Family Storage. A dialog box appears.

The following table provides a brief description of the settings required for USB usage.

TABLE 5-3. USB Settings

Setting	Description
User Name	User name authorized by the file server that permits the download of files.
Password	User password.
Port	Port used.
Remote URL	URL that indicates the position of the file.

Managing the ONU

Follow these steps to manage the ONU.

- **1** Type 192.168.1.1 in the address field of a web browser. A login screen appears.
- **2** Enter the user name and password.
- **3** Click Network > Management. A dialog box appears.

The following table provides a brief description of the Management features.

TABLE 5-4. Management Features

Feature	Description
User Info	You can change your password.
Device	You can restart the ONU.

Troubleshooting

This chapter lists some typical symptoms and check points.

[Problem 1] The Power LED does not light.

Check points:

- 1 Check whether the power cord is properly connected to the POWER connector and the outlet.
- 2 Check whether the proper power adapter is connected.

[Problem 2] The Link LED does not light.

Check points:

- **1** Check whether the ONU is authorized by the carrier.
- 2 Check whether the proper network cables are used.
- **3** Check whether the network cable connection is working.

[Problem 3] The Voice LED does not light.

Check points:

- **1** Check whether the telephone line connection is working.
- **2** Check whether the ONU is on.

Product Specifications APPENDIX A

TABLE A-1. Physical Dimensions

Description	Specification
Dimensions	1.45 in x 5.58 in x 9.60 in
(H x W x D)	(37 mm x 141.8 mm x 243.9 mm)
Weight	Max. 1.10 lbs (0.5 kg)

TABLE A-2. Electrical Specifications

Specification	Operational
Power Adapter Input	12 V/2A, Output power 24W
Power Consumption	Max. 15 W

TABLE A-3. Environmental Spe	cifications
------------------------------	-------------

Specification	Operational
Temperature	-41°F to 113°F
	(-5° to 45°C)
Humidity	5 to 95% (non-condensing)

TABLE A-4. Interface Specifications

Description	Specification
Interfaces	• One optical interface (SC/APC single mode)
	• Two RJ-11 interfaces
	• Four RJ-45 connectors

TABLE A-5. Data Transmission Rates

Feature	Rate
Uplink	1.25 Gbps
Downlink	1.25 Gbps

TABLE A-6. Standard

Feature	Standard
EPON	IEEE 802.3ah

FCC Regulations

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

- -Increase the separation between the equipment and receiver.
- -Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- -Consult the dealer or an experienced radio/ TV technician for help.

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

FCC RF Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

"To comply with FCC RF exposure compliance requirements, this grant is applicable to only Mobile Configurations. The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter."